June 8, 1953

Dear Phil:

I hope you will have had a pleasant respite at Lexington. Your last letter beat me to the draw, but your trip gives me the advantage, so I think you'll get this before you reply to my last.

Don't be concerned about the pedigrees. I'll have these done up properly this week (or sooner).

I am enclosing the Iseki reprints. The more I think of it, the less credible it becomes, but the story should be easy enough to verify on the intertransformed pairs from your previous experiments. Please return the reprints at your own convenience.

Just this morning, a letter arrived from Kauffmann. He cannot find XII_2 in the paratyphi A strains I have been working with lately— this again disposes of this fraction as the receptor. I am inclined to agree with your negative attitude on this subject. That is precisely why pp.3-4 on the ms. Perhaps this can be reworded: "The postulated ~~relationship of~~ function of a specific serological fraction, "XII_2", which is shared by many of the bacterial hosts in groups A,B and D, has not been borne out by further experiments..... In addition, strains of S. paratyphi A, examined by Dr. F. Kauffmann and stated by him to lack the XII_2 fraction, have served as recipients in transduction experiments with the phage."

Kauffmann also writes that his 151-52 (SW-972) came from Dr. Floyd, Cairo. Your letter of April 16 mentions the same origin for Barnes' culture, SW-970. Their behavior in these experiments has been identical. Unless you have any reservations, I suggest deleting reference to SW-970 and quoting SW-972 "(from Dr. Floyd at Cairo; subcultures received from Dr. F. Kauffmann [his #151-52] and from Cdr. L.A. Barnes)".

Kauffmann also mentioned his finding the I factor in durazzo #340 after TM--x 340, but he did not state whether any selection for i was exercised. I had sent him SW-1047, which he confirms as I+ ...b:—, which had been isolated here from SW666 —x durazzo #339 in a serum. [I assume his #339 = your #299]. This looks like it might be a transduction of I, but I am rather dubious of it. In another experiment, an I+ paratyphi A (O form, SW-948, derived from Felix' A17689) was exposed to phage from SW-666, and here gave an I- derivative (SW-1048). I had sent these strains to Kauffmann for verification of XII_2..., but he also reported their I status. I suspect that (as in ab.-equi) more work has to be done on the spontaneous form variation of I in these types. If these strains are of any interest to you, please let me know. Otherwise, I will forbear from sending them (to the possible relief of your assistants).

To turn to more domestic subjects, J. Immunol. has acknowledged receipt of the ms. and it is now in hands of reviewers.

If they give us enough time, I will try to get the ms. down to you again for final revisions when it does come back from the reviewers; in the event they do not, it might be advisable for you to mark any such revises(as I have not already acknowledged)on one ms. copy for my attention.

I would indeed be grateful for a bit of SW-977 and of j serum, as well as ~~some~~ some anti-V if you can spare it. I have been running into what look like"induced phases" from 1,2,... and the former may help distinguish them.

I have a few cultures to send you, under separate cover. Components only surmised, not checked here, are underlined.

SW-1057 IV V XII c:1,2 from S. altendorf (via SW-1053) —x TM2

(possibly to be added to table 4).
(I also ~~have~~ have IV V XII c:enx, from abony —x SW-1053, but this is too long a story to put in the paper)

SW-1056 (both phases)	B enx:b	Purportedly S. abortus-equi, from Moman as her #1966. This has been leading me down the garden path: I had picked it out as a culture that grew well and swarmed rapidly, but is it abortu-equi? The b phase has not moved yet in b serum, but looks as if it will.
104305	gm.	Please destroy the previous shipment under this label. (your 2045-53)

I am sorry you do not have the paratyphi A and typhi O forms (and to have pestered you for them). I was misled by acknowledgments of the authors.

Sincerely,

Joshua Lederberg